UBSCT Utah

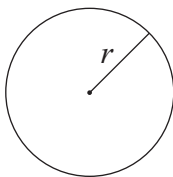## Utah Basic Skills Competency Test
Mathematics Reference Sheet

Use the information below as needed to answer questions on the Mathematics subtest.
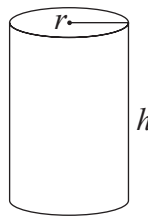
Circle

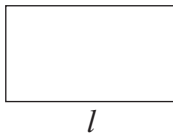$\text{Area} = \pi r^2$
$\text{Circumference} = 2\pi r$

Cylinder

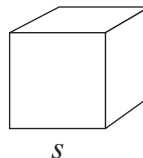$\text{Volume} = \pi r^2 h$
$\text{Surface Area} = 2\pi r^2 + 2\pi rh$

Rectangle

$\text{Area} = lw$
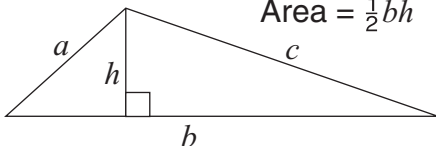$\text{Perimeter} = 2l + 2w$

Cube
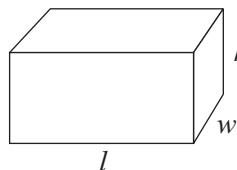
$\text{Volume} = s^3$
$\text{Surface Area} = 6s^2$

Triangle

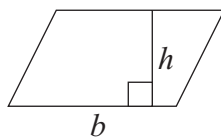$\text{Perimeter} = a + b + c$
$\text{Area} = \frac{1}{2}bh$
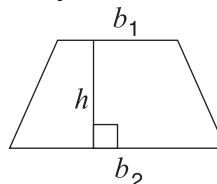
Rectangular Prism

$\text{Volume} = lwh$
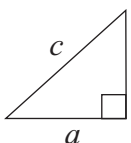$\text{Surface Area} = 2wl + 2lh + 2wh$

Trapezoid

$\text{Area} = \frac{1}{2}h(b_1 + b_2)$

Parallelogram

$\text{Area} = bh$

Pythagorean Theorem

$a^2 + b^2 = c^2$

Definitions

MEAN: In a collection of data, the sum of all the data divided by the number of data.

MEDIAN: The middle number or average of the two middle numbers in a collection of data when the data are arranged in order.

MODE: The number or numbers that occur most often in a collection of data.

RANGE: The difference between the greatest and the least numbers in a collection of data.

DISTANCE TRAVELED: distance = rate × time